

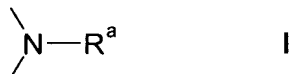


This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original): In an electronic device comprising at least one dielectric layer, the improvement wherein said dielectric layer is formed from at least one organic amine derivative, which is capable of forming a crosslinked polymer with itself and/or with at least one multifunctional compound, and/or its crosslinked polymer product obtainable by crosslinking said amine derivative with itself or with at least one multifunctional compound.

2. (Currently Amended): A device according to claim 1, wherein said at least one amine derivative comprises two or more identical or different groups of the subformula I



wherein

$\text{R}^a$  is H,  $-\text{[(CR'R'')}_v\text{-CO]}_r\text{-R}'''$ ,  $-\text{[(CR'R'')}_v\text{-O]}_r\text{-R}'''$  or  $-(\text{CR'R'')}_v\text{-NHZ}$ ,

$\text{R}'$ ,  $\text{R}''$ ,  $\text{R}'''$  are independently of each other H, an alkyl group with 1 to 12 C-atoms or an alkenyl group with 2 to 12 C-atoms, which may be substituted by halogen,

$\text{Z}$  is H or a protective group,

$v$  is 0 or greater or equal to 1, and

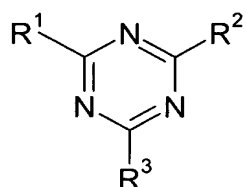
$r$  is greater or equal to 1, wherein if  $v$  is 0, then  $r$  is 1.

3. (Original): A device according to claim 2, wherein  $v$  is greater or equal to 1.

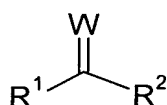
4. (Original): A device according to claim 2, wherein said layer is made from one or more amine derivatives comprising two or more groups of the subformula I, wherein at least one of the groups R<sup>a</sup> is an alkyl group with 1 to 12 C-atoms or an alkenyl group with 2 to 12 C-atoms, which may be substituted by halogen.

5. (Previously Presented) A device according to claim 2, wherein said layer is made from one or more amine derivatives comprising two or more groups of the subformula I, wherein at least one of the groups R<sup>a</sup> is -[(CR'R'')<sub>v</sub>-O]<sub>r</sub>-H.

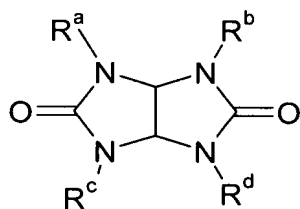
6. (Currently Amended): A device according to claim 1, wherein said at least one organic ~~one or more~~ amine derivatives are selected from formulae I.1 to I.3



I.1



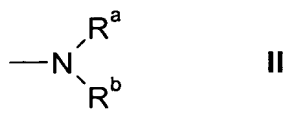
I.2



I.3

wherein

$R^1, R^2, R^3$  are independently of each other a group of formula II



$R^a, R^b,$

$R^c, R^d$  are independently of each other H,  $-[(CR'R'')_v-CO]_r-R'''$ ,  $-[(CR'R'')_v-O]_r-R'''$  or  $-(CR'R'')_v-NHZ$ ,

$R', R'', R'''$  are independently of each other H, an alkyl group with 1 to 12 C-atoms or an alkenyl group with 2 to 12 C-atoms, which may be substituted by halogen,

Z is H or a protective group,

v is 0 or greater or equal to 1,

r is greater or equal to 1, wherein if v is 0, then r is 1,

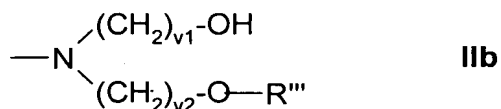
W is O or S, and

$R^3$  may, alternatively, be an alkyl, cycloalkyl, aryl or alkylaryl group, which in each case is optionally substituted by halogen.

7. (Original): A device according to claim 6, wherein v is greater than or equal to 1.

8. (Previously Presented): A device according to claim 6, wherein in formulae I.1 to I.3 at least one of the groups  $R^1, R^2, R^3$  and/or of the groups  $R^a, R^b, R^c, R^d$  comprises an alkyl group with 1 to 12 C-atoms or an alkenyl group with 2 to 12 C-atoms, which may be substituted by halogen.

9. (Currently Amended): A device according to claim 6, wherein said at least one organic ~~one or more~~ amine derivatives is selected from formulae I.1 and I.2, and one, two or three of the groups  $R^1, R^2, R^3$  are independently of each other a group of subformula IIb



wherein

$v_1$  is 0, 1, 2, 3 or 4,

$v_2$  is 1, 2, 3 or 4, and

$R'''$  is H or an alkyl group with 1 to 12 C-atoms, wherein one, more or all H-atoms may be substituted by halogen.

10. (Currently Amended): A polymerizable amine mixture comprising:

50 to 99.5 % by weight of component A,

0 to 50 % by weight of component B, and

0 to 10 % by weight of component C,

wherein

component A [[:]] is at least one organic amine derivative, which is capable of forming a crosslinked polymer with itself and/or with at least one multifunctional compound, wherein the said at least one organic amine derivative comprises two or more identical or different groups of the subformula I



wherein

$R^a$  is H,  $\text{---}[(\text{CR}'\text{R}'')_v\text{---CO}]_r\text{---R}'''$ ,  $\text{---}[(\text{CR}'\text{R}'')_v\text{---O}]_r\text{---R}'''$  or  $\text{---}(\text{CR}'\text{R}'')_v\text{---NHZ}$ ,

$R'$ ,  $R''$ ,  $R'''$  are independently of each other H, an alkyl group with 1 to 12 C-atoms or an alkenyl group with 2 to 12 C-atoms, which may be substituted by halogen,

Z is H or a protective group,

v is 0 or greater or equal to 1, and

r is greater or equal to 1, wherein when v is 0, then r is 1;

component B [[:]] is at least one multifunctional compound, ~~being~~ capable of reacting with at least one component of A to form a crosslinked polymer; and

component C [[:]] is at least one initiator for the polymerization of the component A or the components A and B.

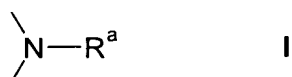
11. (Original): A polymerizable amine mixture according to claim 10, wherein said mixture contains 0.5 to 50 % by weight of component B.

12. (Currently Amended): A polymerizable amine mixture according to claim 10 8, further comprising component D in an amount of from 0.5 to 50000 % by weight related to the total weight of components A, B and C, wherein component D is a solvent, or a mixture of two or more solvents, capable of dissolving the components A, B and C.

13. (Previously Presented): A polymerizable amine mixture according to claim 10, further comprising superfine ceramic particles as a component F.

14. (Previously Presented): A polymerizable amine mixture according to claim 13, wherein the superfine ceramic particles of component F are contained in the polymerizable amine mixture in an amount of from 0 to 80 % by weight, related to the total weight of components A, B and C.

15. (Currently Amended): A polymerizable ~~Polymerizable~~ amine mixture according to claim 10, wherein said mixture contains one or more amine derivatives which ~~amine derivative~~ comprises two or more identical or different groups of the subformula I



wherein

Ra is H,  $-\text{[(CR'R'')}_v\text{-CO]r-R''}$ ,  $-\text{[(CR'R'')}_v\text{-O-]r-R''}$  or  $-\text{(CR'R'')}_v\text{-NHZ}$ ,

R', R'', R''' are independently of each other H, an alkyl group with 1 to 12 C-atoms or an alkenyl group with 2 to 12 C-atoms, which may be substituted by halogen,

Z is H or a protective group,

v is 0 or greater or equal to 1, and

r is greater or equal to 1, wherein if v is 0, then r is 1.

16. (Currently Amended) A polymerizable amine mixture according to claim 10, wherein component B is an organic compound with at least two functional groups selected from -OH, -NH<sub>2</sub>, -COOH and their reactive derivatives, which functional groups ~~functional groups~~ are capable of reacting with at least one component of A to form a crosslinked polymer.

17. (Currently Amended): An amine polymer material obtainable by polymerization of a polymerizable ~~poly-merizable~~ amine mixture according to claim 10.

18. (Currently Amended): A process for the manufacture of a dielectric layer of an electronic device, said process comprising: ~~the steps~~

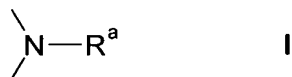
- a) preparing a substrate which optionally comprises one or more layers or patterns of materials with insulating, semiconductive, conductive, electronic and/or photonic functionalities,
- b) forming a thin layer of a polymerizable amine mixture comprising one or more organic amine derivatives as defined in claim 1 onto said substrate or onto defined regions of said substrate, and
- c) initiating the polymerization of the polymerizable amine mixture of said thin layer.

19. (Currently Amended) A process according to claim 18, wherein said polymerizable amine mixture is a polymerizable amine mixture comprising:

50 to 99.5 % by weight of component A,  
0 to 50 % by weight of component B, and  
0 to 10 % by weight of component C,

wherein

component A [[:]] is at least one organic amine derivative, which is capable of forming a crosslinked polymer with itself and/or with at least one multifunctional compound, wherein the said at least one organic amine derivative comprises two or more identical or different groups of the subformula I



wherein

$\text{R}^a$  is H,  $-(\text{CR}'\text{R}'')_v\text{-CO}-\text{R}'''$ ,  $-(\text{CR}'\text{R}'')_v\text{-O}-\text{R}'''$  or  $-(\text{CR}'\text{R}'')_v\text{-NHZ}$ ,

$\text{R}'$ ,  $\text{R}''$ ,  $\text{R}'''$  are independently of each other H, an alkyl group with 1 to 12 C-atoms or an alkenyl group with 2 to 12 C-atoms, which may be substituted by halogen,

$\text{Z}$  is H or a protective group,

$v$  is 0 or greater or equal to 1, and

$r$  is greater or equal to 1, wherein when  $v$  is 0, then  $r$  is 1;

component B [[:]] is at least one multifunctional compound, being capable of reacting with at least one component of A to form a crosslinked polymer; and

component C [[:]] is at least one initiator for the polymerization of the component A or the components A and B.

20. (Previously Presented): An electronic device obtainable by the process according to claim 18.

21. (Original): In an electronic device comprising a dielectric, the improvement wherein said dielectric comprises an amine polymer material according to claim 17.

22. (New): A device according to claim 2, wherein Z is H, formyl, tosyl, acetyl, trifluoroacetyl, methoxy, ethoxy, tert.-butoxy, cyclopentyloxy, phenoxycarbonyl, carbobenzyloxy, or p-nitrobenzyloxy.

23. (New): A device according to claim 2, wherein v is 1 to 6.

24. (New): A device according to claim 2, wherein r is 1 to 4.

25. (New): A device according to claim 22, wherein v is 1 to 6 and r is 1 to 4.

26. (New): A device according to claim 6, wherein Z is H, formyl, tosyl, acetyl, trifluoroacetyl, methoxy, ethoxy, tert.-butoxy, cyclopentyloxy, phenoxycarbonyl, carbobenzyloxy, or p-nitrobenzyloxy, v is 1 to 6, and r is 1 to 4.